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Applicants: David White

Serial No.: 10/666,807

Filed: September 18, 2003

Title: COMPOSITIONS, KITS AND METHODS FOR PROGNOSTICATION,
DIAGNOSIS, PREVENTION, AND TREATMENT OF BONE-RELATED
DISORDERS AND OTHER DISORDERS

Attorney/Agent: Kerri Pollard Schray

Docket No.: MPI99-130PIRCN1M

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H -----MGPTLAVPTPYGCIGCKLPQPEYPPALIIIFMFCAMVITIVVDLIGNSMVILAVTKNKKLRNS
M MATVPKSNMGPTKAVPTPFGCIGCKLPKPDYPPALIIIFMFCAMVITIVVDLIGNSMVILAVTKNKKLRNS
R -----

H GNIFVVSLSVADMLVAIYPYPLMLHAMSIGGWDLSQLQCQMVGFITGLSVVGSIFNIVAIAINRYCYICH
M GNIFVASLSVADMLVAIYPYPLMLYAMSVGGWDLSQLQCQMVGLVTGLSVVGSIFNITAIAINRYCYICH
R -----YCYICH

H SLOYERIFSVRNTCIYLVITWIMTVLAVLPNMYIGTIEYDPRTYTCIFNYLNNPVFTVIVCIHFVLPPL
M SLQYKRIFSLRNTCIYLVVTVWMTVLAVLPNMYIGTIEYDPRTYTCIFNYVNNPAFTVIVCIHFVLPPLI
R SLQYNADLQPANTCIYLVVTVWMTVLDVLPNVYIGTIEYDPRTYTCIFNYVNNPAFTVIVCIHFVLPPLI

H IVGFCYVRIWTKVLAARDPAGQNPNDQLAEVNRNFLTMTFVIFLLFAVCWCPCPNVLTVLVAVSPKEMAGKIP
M IVGYCYTKIWKVLAARDPAGQNPNDQFAEVNRNFLTMTFVIFLLFAVCWCPCPNVLTVLVAVIPKEMAGKIP
R IVGYCYTKIWKVLAARDPAGQNPNDQFAEVNRNFLTMTFVIFLL-----

H NWLYLAAYFIAYFNNSCLNAVIYGLLNENFRREYWTIFHAMRHPPIIFFPGLISDIREMQEARTLARARAH
M NWLYLAAYCIAYFNNSCLNAIIYGILNESFRREYWTIFHAMRHPILFISHLISDIRETWETRALTRARVRA
R -----

H RDQAREQDRAHACPAVEETPMNVVRNVPLPGDAAAGHPDRASGHPKPHSRSSAYRKSASTHHKSVFHSK
M RDQVREQERARACVAVEGTPRNVVRNVLLPGDASAPHSDRASVRPKPQT-----RSTSVYRK
R -----

Fig. 1A

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H  AASGHLKPVSGHSPASGHPKSA-TVYPKPASVHFKGDSVHFKPDSVHFKPASSNPKPITGHH
M  PASIHHKSI SGHPKASVYPKPASSVHCKPASVHFKPASVHFKGDSVYFKGDTVHYRAAS--KLVTSHR
R  -----

H  VSAGSHSKSAFSAATSHPKP-----IKPATSHAEP T TADY PKPAT TSHPKPAAADNP ELSASHCPEI PAIA
M  ISAG-----PSTSHPTSMAGYIKSGTSHPAT TTV DYLEPAT TSHSVLTAVDLPEVSASHCLEMENTSTG
R  -----

H  HPVDDSDLPESASSPAAGPTKPAASQLESDT IADLPDPTVVTTSTNDYHDVVVD----VEDDPDEMAY
M  HLRAD-----ISASVLPSPVFFELAATP-----PD TTAIPIASGDYRKVVLIDDDSDDCSDEMAY
R  -----
```

Fig. 1B

TGTGTTGCTGTCTGGACCTGGCTGCTGATCCTGAGCCTGCTGGGAGATCTTAACGATCCCAGGAGCAACATGGGGCCCCACCCCTAG
 CCGGTTCCCACCCCTATGGCTGATTGGCTGTAAGCTACCCAGCCAGAAATACCCACCGGCTCTAATCATCTTTATGTTCTGCGC
 GATGGTTATCACCATCGTTGTAGACCTAATCGGCAACTCCATGGTCATTTGGCTGTGACGAAACAAGAGCTCCGGAATTCT
 GGGCAACATCTTCTGTTGCTAGTCTCTGTGTGCCGATATGCTGGTGGCCATCTACCCATACCCCTTTGATGCTGCATGCCATGTCCA
 TTTGGGGGCTGGGATCTGAGCCAGTTACAGTGCCAGATGGTGGGTTTCATCACAGGGCTGAGTGTGGTGGCTCCATCTTCAACAT
 CGTGGCAATCGCTATCAACCGTTACTGCTACATCTGCCACAGCCTCCAGTACGACGGATCTTCAGTGTGCGCAATACCTGCGATC
 TACCTGGTCATCACCTGGATCATGACCGTCTGGCTGTCTGCCAACATGTACATTTGGCACCATCGAGTACGATCCTCGCACCT
 ACACCTGCATCTTCAACTATCTGAACAACCTGTCTTCACTGTTACCATCGTCTGCATCCACTTCTGCTCCCTCTCCTCATCGT
 GGGTTTCTGCTACGTGAGGATCTGGACCAAAAGTGTGGCGGCCGTGACCTCGAGGGCAGAACTCTGACAAACCAACTTGCTGAG
 GTTCGCAATTTCTAACCATGTTTGTGATCTTCTCCTCTTTGCAAGTGTGCTGTGCCCTATCAACGTGCTCACTGTCTTGTGTG
 CTGTGAGTCCGAGGAGATGGCAGGCAAGATCCCCAACTGGCTTTATCTTGACGCCACTTTCATAGCCTACTTCAACAGCTGCCT
 CAACGCTGTGATCTACGGCTCCTCAATGAGAAATTCCGAAGAGAAATACTGGACCATCTTCCATGCTATGCGGCACCCCTATCATA
 TTTCTTCCCTGGCCTCATCAGTGATATTCGTGAGATGCAGGAGGCCCTACCTGGCCCGCCGCTGCCATGCTCGCGACCAAG
 CTCGTGAACAAGACCGTGCCCATGCCCTGTCTGTGGAGGAAACCCCGATGAATGTCCGGAATGTTCCATTACCTGGTGATGC
 TGCAGCTGGCCACCCGACCGTGCCCTCTGGCCACCCCTAAGCCCCATTCAGATCCTCCTCTGCTATCGCAATCTGCCTCTACC
 CACCACAAGTCTGTCTTAGCCACTCCAAGGCTGCCCTGTGTCACCTCAAGCCTGTCTCTGGCCACTCCAAGCCTGCCTCTGGTC
 ACCCAAGTCTGCCACTGTCTACCTAAGCCTGCCCTGTCCATTTCAGGGTGACTCTGTCCATTTCAAGGGTGACTCTGTCCA
 TTTTCAAGCCTGACTCTGTTCAATTTCAAGCCTGTCTCCAGCAACCCCAAGCCCATCACTGGCCACCATGTCTCTGCTGGCAGCCAC
 TCCAAGTCTGCCCTCAGTGCTGCCACCAGCCACCCCTAAACCCATCAAGCCAGCTACCAGCCATGCTGAGCCCACTGCTGACT
 ATCCCAAGCCTGCCACTACCAGCCACCCCTAAGCCCGCTGTGCTGACAACCCCTGAGCTCTCTGCCCTCCCATTTGCCCCGAGATCCC
 TGGCATTTGCCCAACCTGTGTCTGACGACAGTGACCTCCCTGAGTCGGCCTCTAGCCCTTCCCGTGGGCCACCAAGCCTGCTGCC
 AGCCAGCTGGAGTCTGACACCATCGCTGACCTTCTGACCCCTACTGTAGTCACTACCACTACCAATGATTACCATGATGTCGTGG
 TTGTTGATGTTGAAGATGATCCTGATGAAATGGCTGTGTGAAAAATGCTCTCGTAGGTGGCCAGGCAGT

Fig. 2A

AAGATCCTGAGCTTGCCCTGGGAGGAATGGCCACGGTCCCCAAGAGCAACATGGGACCTACAAAGGCGGTTCCACCCCATTCGGC
TGCAATTGGCTGTAAGCTGCCAAAGCCCGACTACCCGCCAGCTCTAATCATCTTTCATGTTCTGCGCAATGGTCATCACAGTCGTCG
TAGACCTGATCGGGAACCTCCATGGTCAATTTGGCTGTGACCAAGAAGAGCTCCGAAATCTGGCAACATCTTTGTGGCCAG
CCTCTGTGGCAGACATGCTGGTGCCATCTACCCCTACCCCTTTGATGCTGTATGCCATGTCAAGTTGGGGCTGGGATCTGAGT
CAGCTCCAGTGCCAGATGGTCGGGTGGTACAGGACTGAGCGTAGTCGGTCCATCTTCAACATTAATGCGCATTGCCATCAACC
GTTACTGCTACATCTGCCACAGCCTCCAATACAAGCGGATCTTCAGCCTGCGCAACACTTGCACTCTATCTGGTCTTACCTGGGT
CATGACTGCTGCTGCTGCTGCCCTAACATGTACATTTGGCACCATTTGAGTATGACCCCTGCACCTACACCTGCACTCTCAACTAT
GTGAACAAATCCTGCCCTTACCCTGACCATTTGCTGCATCCACTTCGTCCTCCCTCATCATAGTTGGTTATTGCTACACGAAAA
TCTGGATCAAGTGTGGCAGCCCGTGACCCAGCTGGACAGAACTCTGACAACCAAGTTTGTGAGGTTTCGAAATTTTCTAACCAT
GTTTGTGATCTTCTCCTTTTTCAGTTGCTGGTGCCCTGTCAATGTGCTCACTGTGTTGGTGGCTGTCAATCCAAAGGAAAAATGG
CAGGCAAGATCCCCAACTGGCTTTATCTTGACGCTACTGCATAGCCTACTTCAACAGCTGCCTCAACGCCATCATCTACGGTAT
CCTCAATGAGAGTTTCCGAAGAGAAATACTGGACCATCTTCCATGCTATGCGGCACCCCTATCCTGTTTCATCTCTCACCTCATCAGT
GATATTCGGGAGACTTGGGAGACCCGAGCTCTCACTCGTGCCCGTGTCCTGTCAGTCAAGTCCGAGAGCAAGAGCGTGCTC
GTGCTGTGTGCTGTGGAGGGGACCCCAAGGAACGTCCGGAATGTTCTACTGCTGGTGATGCATCAGCACCCCACTCTGATCG
TGCCCTCTGTCCTGCCAAGCCCCAACCAAGGTCTACTTCTGTCTACCGCAACCTGCCCTCTATCCACCAAGTCTATTTCTTGGC
CACCCCAAGTCTGCTCTGTTTACCCCTAAGCCAGCCTCCTCTGTCCATTGCAAGCCTGCCCTCTGTCCATTTCAAACCCGCCCTCTG
TTCATTTCAAGGTGACTCTGTCTATTTCAAGGAGACACTGTCCATTACAGGGCTGCTTCCAAACTTGTCAACAGTCACCCGTAT
CTCTGCTGGCCCTCCACCAAGTCAACCTACATCCATGGCTGGCTACATTAATCTGGTACCAAGCCCTGCCACCACTGTT
GACTATCTCGAACCTGCCACCAAGCCACTCTGTGCTCACTGCTGTCGACCTCCCTGAGGCTCAGCCCTCCCATTCGCTTGAGA
TGACCAGCACTGGCCACCTCAGAGCTGACATTTCTGCCCTCTGTCCCTTCTGTACCCCTTCGAGCTTGTGCCACCCCTCCTGA
TACCACTGCAATCCCCATTCGCTCTGGTGATTACCGCAAGGTCGTGCTTATTGATGATGATTCTGATGATTCTGCTCTGAT
GAGATGGCTGTGTGA

Fig. 2B

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TACTGCTACATCTGCCACAGCCCTCCAGTACAATGCGGATCTTCAGCCCTGCTAACACTTGCACTATCTGGTTGTTACCTGGGTCA
TGACTGTTCTGGATGTCCTGCCCTAAATGTGTACATTTGGCACCATTTGAGTATGACCCCTCGCACCTACACCTGCTACTTCAACTATGT
GAACAACCCCTGCCCTTTACTGTGACCATTTGTCTGCATCCACTTCGTCCTCCCTCTCATCATAGTCGGTTATTGCTACACAAAAATC
TGGATCAAAGTGTGGCAGACCCGGGACCCAGCTGGACAGAAATCCTGACAACCCAGTTTGCTGAGGTTTCGAAATTTTCTAACCCATGT
TTGTGATCTTCCTCCTT

Fig. 2C

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FIG. 3

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FIG. 4A

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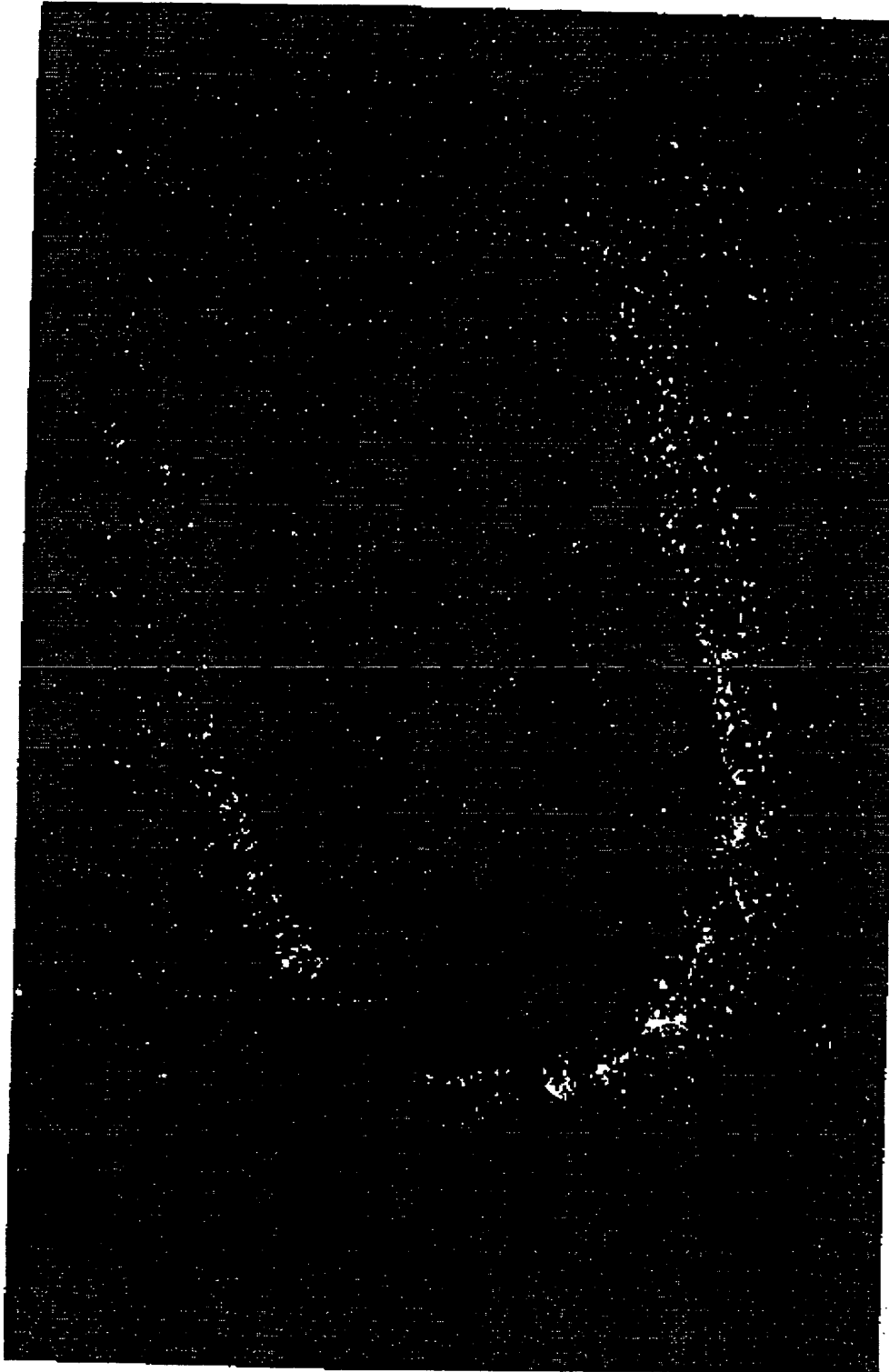


FIG. 4B

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FIG. 4C

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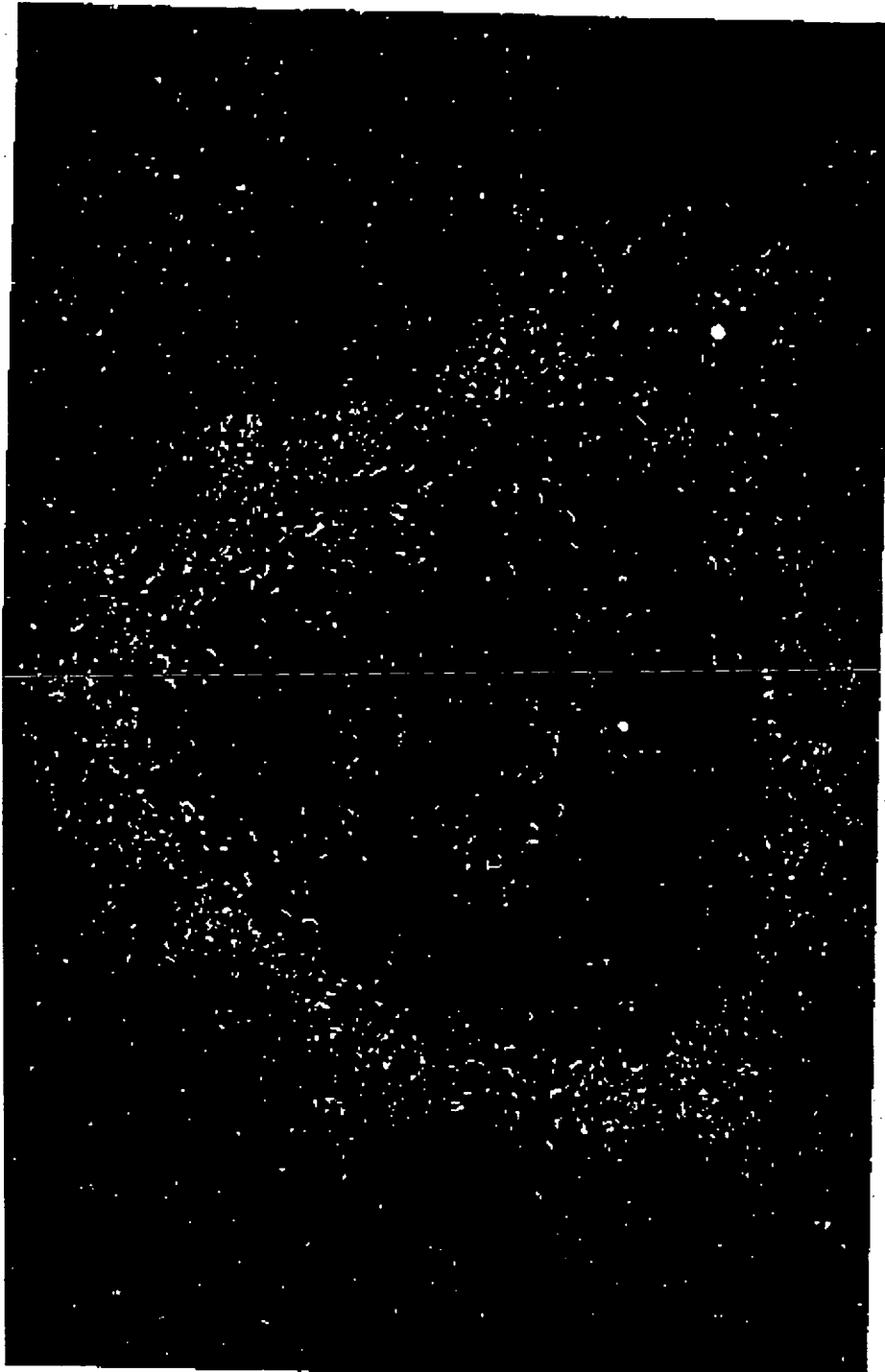


FIG. 4D

AF003625	27599	tgtttgctgtctggacctggctgctgacccctgagcctgctgggagatcttaacgatcccc	
U52219	1		
		tgtttgctgtctggacctggctgctgacccctgagcctgctgggagatcttaacgatcccc	
AF003625	27659	aggagcaacatggggccaccctagcgggtccacccccctatggctgtattggctgtaag	
U52219	61		
MRR AA	1	aggagcaacatggggccaccctagcgggtccacccccctatggctgtattggctgtaag	
		M G P T L A V P T P Y G C I G C K	
AF003625	27719	ctacccagccagaataccacccggctctaatcatctttatgttctgcgcgatggttatc	
U52219	121		
MRR AA	18	ctacccagccagaataccacccggctctaatcatctttatgttctgcgcgatggttatc	
		L P Q P E Y P P A L I I F M F C A M V I	
AF003625	27779	accatcgtttagaccctaatacggcaactccatcgtcattttggctgtgacgaagaacaag	
U52219	181		
MRR AA	38	accatcgtttagaccctaatacggcaactccatcgtcattttggctgtgacgaagaacaag	
		T I V V D L I G N S M V I L A V T K N K	

Fig. 5A

AF003625	27839	aagctccggaattctgg	
U52219	241	aagctccggaattctgg	
MRR AA	58	K L R N S G	
AF003625	30712	ttcaggcaacatcttcgtggtcagtcctctctgtggccgatatgctggtggccatctaccc	
U52219	252	ttctggcaacatcttcgtggtcagtcctctctgtggccgatatgctggtggccatctaccc	
MRR AA	62	S G N I F V V S L S V A D M L V A I Y P	
AF003625	30772	ataccctttgatgctgcacatgccatgtccattgggggctgggatctgagccagttacagt	
U52219	312	ataccctttgatgctgcacatgtccattgggggctgggatctgagccagttacagt	
MRR AA	82	Y P L M L H A M S I G G W D L S Q L Q C	
AF003625	30832	ccagatggtcgggttcacacagggtgagtggtcggtcccatcttcaacatcgtggc	
U52219	372	ccagatggtcgggttcacacagggtgagtggtcggtcccatcttcaacatcgtggc	
MRR AA	102	Q M V G F I T G L S V V G S I F N I V A	

Fig. 5B

AF003625	30892	aatcgctatcaaccggttactgctacatctgccacagcctccagtagcgaacggatcttcag
U52219	432	aatcgctatcaaccggttactgctacatctgccacagcctccagtagcgaacggatcttcag
MRR AA	122	I A I N R Y C Y I C H S L Q Y E R I F S
AF003625	30952	tgtgcgcaatacctgcattacctgggtcatcacctgggatcatgaccgtcctggctgtcct
U52219	492	tgtgcgcaatacctgcattacctgggtcatcacctgggatcatgaccgtcctggctgtcct
MRR AA	142	V R N T C I Y L V I T W I M T V L A V L
AF003625	31012	gcccaacatgtacattggcaccatcgagtacgatacctcgacacctacacctgcatcttcaa
U52219	552	gcccaacatgtacattggcaccatcgagtacgatacctcgacacctacacctgcatcttcaa
MRR AA	162	P N M Y I G T I E Y D P R T Y T C I F N
AF003625	31072	ctatctgaacaaccctgtcttcaactgttaccatcgctgtgcatccacttcgtcctccctct
U52219	612	ctatctgaacaaccctgtcttcaactgttaccatcgctgtgcatccacttcgtcctccctct
MRR AA	182	Y L N N P V F T V T I V C I H F V L P L

Fig. 5C

AF003625	31132	cctcatcgtgggtttctgctacgtgaggatctggaccaaagtctggcgccccgtgaccc
U52219	672	cctcatcgtgggtttctgctacgtgaggatctggaccaaagtctggcgccccgtgaccc
MRR AA	202	L I V G F C Y V R I W T K V L A A R D P
AF003625	31192	tgcagggcagaatcctgacaaccaacttgctgaggttcgcaattttctaaccatgtttgt
U52219	732	tgcagggcagaatcctgacaaccaacttgctgaggttcgcaattttctaaccatgtttgt
MRR AA	222	A G Q N P D N Q L A E V R N F L T M F V
AF003625	31252	gatcttcctcctctttgcagtgctggtggccctatcaacgtgctcactgtcttggtggc
U52219	792	gatcttcctcctctttgcagtgctggtggccctatcaacgtgctcactgtcttggtggc
MRR AA	242	I F L L F A V C W C P I N V L T V L V A
AF003625	31312	tgtcagtcgccgaaggagatggcaggcaagatcccccaactggctttatcttgcagccctactt
U52219	852	tgtcagtcgccgaaggagatggcaggcaagatcccccaactggctttatcttgcagccctactt
MRR AA	262	V S P K E M A G K I P N W L Y L A A Y F

Fig. 5D

AF003625	31372	catagcctacttcaacagctgcctcaacgctgtgatctacgggctcctcaatgagaattt
U52219	912	catagcctacttcaacagctgcctcaacgctgtgatctacgggctcctcaatgagaattt
MRR AA	282	I A Y F N S C L N A V I Y G L L N E N F
AF003625	31432	ccgaagagaataactggaccatcttccatgctctatgcggcacccctatcataattcttctctgg
U52219	972	ccgaagagaataactggaccatcttccatgctctatgcggcacccctatcataattcttccctgg
MRR AA	302	R R E Y W T I F H A M R H P I I F F P G
AF003625	31492	cctcatcagtgatattcgtgagatgcaggagggcccgtaacctggcccgcccggtgcccc
U52219	1032	cctcatcagtgatattcgtgagatgcaggagggcccgtaacctggcccgcccggtgcccc
MRR AA	322	L I S D I R E M Q E A R T L A R A R A H
AF003625	31552	tgctcgcgaccaagctcgtgaacaagaccgtgcccattgcctgtcctgtgtgaggaaac
U52219	1092	tgctcgcgaccaagctcgtgaacaagaccgtgcccattgcctgtcctgtgtgaggaaac
MRR AA	342	A R D Q A R E Q D R A H A C P A V E E T

Fig. 5E

AF003625	31612	cccgatgaatgtccggaatgttccattaccttggtgatgtgcagctggccaccccgaccg
U52219	1152	cccgatgaatgtccggaatgttccattaccttggtgatgtgcagctggccaccccgaccg
MRR AA	362	P M N V R N V P L P G D A A A G H P D R
AF003625	31672	tgctctggccaccctaaagccccattccagatcctcctctgcctatcgcaaatctgcctc
U52219	1212	tgctctggccaccctaaagccccattccagatcctcctctgcctatcgcaaatctgcctc
MRR AA	382	A S G H P K P H S R S S S A Y R K S A S
AF003625	31732	taccaccacaagtctgtctttagccactccaaggctgcctctggtcacctcaagcctgt
U52219	1272	taccaccacaagtctgtctttagccactccaaggctgcctctggtcacctcaagcctgt
MRR AA	402	T H H K S V F S H S K A A S G H L K P V
AF003625	31792	ctctggccactccaagcctgcctctgtggtcacccccaagtctgccactgtctaccctaagcc
U52219	1332	ctctggccactccaagcctgcctctgtggtcacccccaagtctgccactgtctaccctaagcc
MRR AA	422	S G H S K P A S G H P K S A T V Y P K P

Fig. 5F

AF003625	31852	tgcctctgtccatttcaaggctgactctgtccatttcaagggtgactctgtccatttcaa
U52219	1392	tgcctctgtccatttcaagggtgactctgtccatttcaagggtgactctgtccatttcaa
MRR AA	442	A S V H F K G D S V H F K G D S V H F K
AF003625	31912	gcctgactctgttcatattcaagcctgttccagcaaccccaagcccatcactggccacca
U52219	1452	gcctgactctgttcatattcaagcctgttccagcaaccccaagcccatcactggccacca
MRR AA	462	P D S V H F K P A S S N P K P I T G H H
AF003625	31972	tgtctctgtggcagccactccaagtctgccttcagtgtgccaccagccaccctaaacc
U52219	1512	tgtctctgtggcagccactccaagtctgccttcagtgtgccaccagccaccctaaacc
MRR AA	482	V S A G S H S K S A F S A A T S H P K P
AF003625	32044	catcaagccagctaccagccatgctgagccaccactgtgactatcccaagcctgccac
U52219	1572	catcaagccagctaccagccatgctgagccaccactgtgactatcccaagcctgccac
MRR AA	502	I K P A T S H A E P T T A D Y P K P A T

Fig. 5G

AF003625	32104	taccagccaccctaagcccaactgctgctgacaaccctgagctctctgcctccattgccc
U52219	1632	taccagccaccctaagcccgctgctgctgacaaccctgagctctctgcctccattgccc
MRR AA	522	T S H P K P A A A D N P E L S A S H C P
AF003625	32164	cgagatccctgccattgcccaaccctgtgtctgacgacagtgacctccctgagtcggcctc
U52219	1692	cgagatccctgccattgcccaaccctgtgtctgacgacagtgacctccctgagtcggcctc
MRR AA	542	E I P A I A H P V S D D S D L P E S A S
AF003625	32224	tagccctgccgctgggccaccaagcctgctgccagccagctggagctgacaccatcgc
U52219	1752	tagccctgccgctgggccaccaagcctgctgccagccagctggagctgacaccatcgc
MRR AA	562	S P A A G P T K P A A S Q L E S D T I A
AF003625	32284	tgaccttcctgacctactgtagtcactaccagtagtaccatgattaccatgctcgtggt
U52219	1812	tgaccttcctgacctactgtagtcactaccagtagtaccatgattaccatgctcgtggt
MRR AA	582	D L P D P T V V T T S T N D Y H D V V V

Fig. 5H

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Fig. 5I